Bachelor of Science





Program Planning Guide

Department: Physics and Astronomy

Calendar Year: 2015/2016

Name:______
ID: _____

Major in Physics:

www.uleth.ca/artsci/physics-astronomy

Academic Calendar:

www.uleth.ca/ross/academic-calendar

High School Prerequisites by Course:

www.uleth.ca/ross/hs preregs/course

Current and Past Program Planning Guides:

www.uleth.ca/ross/ppgs

Faculty of Arts and Science Student Program Services:

www.uleth.ca/artsci/advising artsci.advising@uleth.ca (403) 329-5106 SU060

Co-operative Education:

www.uleth.ca/artsci/coop

This is a planning guide and not a graduation check or guarantee of course offerings. You should have a program check done in your final year of studies. Students are responsible for the accuracy of their own programs. The guide should be used in conjunction with the University of Lethbridge Calendar, which is the final authority on all questions regarding program requirements and academic regulations. Contact an Academic Advisor in the Faculty of Arts and Science for advising information.

	ID:	
point average of at least	2.00.	
25-26.Two of: ²	9	
	point average of at least 25-26.Two of:2 Other Courses (1 2 3 4 5 6 6	

Notes

Since a number of courses are offered only on alternate years, students are advised to plan carefully to include the desired courses. In all cases, students (especially those planning for advanced studies in Physics) are encouraged to seek advice on their programs from any member of the Department of Physics and Astronomy.

It is recommended that students majoring in Physics include in their program courses in Biology, Chemistry, Computer Science, and Mathematics. It is strongly recommended that a student attain a grade of 'C' or higher in any course used to satisfy prerequisites for courses in Physics and Mathematics.

- Bachelor of Science Remote Sensing
- Bachelor of Science/Bachelor of Education Physics/Science Education
- Bachelor of Science/Bachelor of Management Physics

¹Engineering 2000 and Mathematics 1560 are prerequisites for Engineering 2060.

²Offerings in Physics 3850 (Topics) and Physics 4850 (Topics) and either Physics 4150 or Physics 4200 (if not used above) may be used to satisfy this requirement.

•	rai Liberai Education Requirement (GLER).		ted for anodit towards the degree	
by a single department. See the	hours) in total may be counted from all courses offered e 2015/2016 Calendar, p. 83, for more information.	nours) may be complet	ted for credit towards the degree.	
LIST I: Fine Arts and Humanities Courses		Not more than five Disciplinary Credit Applied Studies		
1	3		ours) may be completed for credit udents may, in addition, complete	
2	4	Applied Studies 2000, 2		
LIST II: Social Science	Courses	Not more than 24 cour	ses (72.0 credit hours) may be	
1	3	completed from any on degree.	e discipline for credit towards the	
2		Note: Disciplines are identifi	ied by a specific course label (e.g. KNES, ASTF	
LIST III: Science Cours		and HIST are separate discip	unes).	
1			lit hours in Activity courses (i.e.	
			and MUSE) may be completed for ee, except for Kinesiology majors (no	
2	4	more than 15.0 credit l than 12.0 credit hours)	hours) and Music majors (not more).	
Not more than 12 course	es (36.0 credit hours) may be completed at	Not more than four cou	urses (12.0 credit hours) from	
) [0500 - 1999] for credit towards the	disciplines offered outside the Faculty of Arts and Science o		
degree, excluding Activi	ty courses (labelled PHAC and MUSE).		s may be completed for credit toward d ADCS, CDEV, CRED, EDUC, HLSC,	
1	7	MGT, NURS, and PUBI	I). Courses cross-listed between the	
2	8	faculty of Arts and Scie towards this limit.	ence and another Faculty do not coun	
3	9	Residence requiremen	ıt:	
4		Degree: at least 20 cours	ses (60.0 credit hours) must be complete	
5	11	at the University of Lethbridge, including the last 10 courses (30 credit hours) completed for credit towards the degree. Major: at least half of the courses required in the major must be completed at the University of Lethbridge.		
6	(max.)			
	5 courses (45.0 credit hours) from	Minor (Optional):		
	te Faculty of Arts and Science or the Faculty 4000 level, excluding Activity courses	See the 2015/2016 Calendar, p. 137,	for eligible minors.	
(labelled PHAC and MU		1	4	
1	9	2	5	
2	10	3	6	
3	11			
4	12			
5				
6	14			
7	(min.)			
8				

Bachelor of Science - Physics

Year 1, Spring

Sample Sequencing Plan

Year 1, Fall

Shown below is a sample sequence of courses for your degree. If you follow this plan, you should be able to graduate in four years, provided you complete five courses per semester. This is just one example of how you could complete your major and degree requirements; you may find that a different sequence works as well as this one.

Biology 1010 or Biology 1020 Mathematics 1410 Mathematics 1560 ¹ Physics 1000 or Physics 1050 GLER course	Mathematics 2560 Physics 2000 Physics 2130 Computer Science 1620 GLER course
Year 2, Fall Chemistry 1000 Mathematics 2570 Physics 2120 Physics 2800 GLER course	Year 2, Spring Mathematics 2580 Physics 2150 Physics 2925 GLER course GLER course
Year 3, Fall Physics 3150 Physics 3175 Physics 3200 Physics 3925 GLER course	Year 3, Spring Physics 3400 Physics 3750 Physics 3800 GLER course GLER course
Year 4, Fall Physics 4175 Physics 3000/4000 level Elective 3000/4000 level Elective 3000/4000 level Elective	Year 4, Spring Physics 4150 or Physics 4200 Physics 3000/4000 level Elective 3000/4000 level Elective 3000/4000 level Elective

Students with less than 75% in Mathematics 30-1 or without Mathematics 31 must complete MATH 1010 as a prerequisite.

Note: Students are strongly advised to consult with the Department of Physics and Astronomy regarding the sequencing of courses.

Terms Used

GLER course: A course that could count toward the General Liberal Education Requirement. You may use courses in your major towards this 12-course requirement. See the 2015/2016 University of Lethbridge Calendar, Part 4 - Academic Regulations (p. 83) for complete information.

The Faculty of Arts and Science offers Liberal Education 1000 and 2000, specifically designed to introduce first-year students to the wide scope of human knowledge and teach essential university success skills, critical thinking, and integrative thinking (see the 2015/2016 University of Lethbridge Calendar, Part 14 - Courses, p. 301). LBED 1000 and 2000 may be used toward satisfying the GLER.

Elective: A course that you may choose freely from all those available and applicable to your program. Use courses inside or outside your major, bearing in mind any restrictions that may apply (e.g., a maximum of 24 courses from any one discipline).

